

Application No. 10/675,711
Amendment dated December 20, 2004
Reply to Office action of November 17, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

CLAIMS:

Please amend claims 1, 8, 11, 16, 25, 30, and 32, and cancel claims 7, 15, 29, and 37, as follows:

1. (Currently Amended) A method, comprising:
receiving one or more weather signals on at least a first channel of the
navigation device, where the one or more weather signals include location
information;
determining one or more positions using a navigation device;
comparing the one or more positions with the location information; and
generating a weather alert in the navigation device based on comparing the one
or more positions with the location information;
performing a routing algorithm to calculate a route, where the route includes one
or more waypoints;
comparing the one or more waypoints with the location information of the one or
more weather signals; and
generating the weather alert based on comparing the one or more waypoints of

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the route with the location information.

2. (Original) The method of claim 1, wherein determining the one or more positions further includes determining the positions from a global positioning system (GPS) enabled navigation device.
3. (Original) The method of claim 1, wherein receiving one or more weather signals on at least the first channel of the navigation device includes receiving a Specific Area Message Encoding signal that includes the location information.
4. (Original) The method of claim 1, wherein the method further includes receiving and transmitting one or more voice data signals.
5. (Original) The method of claim 4, wherein the method further includes receiving and transmitting the one or more voice data signals on a Family Radio Service (FRS) frequency.
6. (Original) The method of claim 4, further including interrupting the receiving and transmitting of the one or more voice data signals of the navigation device with the weather alert.

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7. (Cancelled)
8. (Currently Amended) The method of claim ~~[[7]]~~ 1, wherein, upon generating the weather alert, the method further includes:
 - selecting one or more waypoints;
 - determining a present location based on a signal from a global positioning system (GPS); and
 - performing the routing algorithm to calculate the route between the present position and the selected waypoints.
9. (Original) The method of claim 8, wherein selecting one or more waypoints includes selecting one or more destination points.
10. (Original) The method of claim 1, further including recording a track log;
 - determining a heading based on the track log;
 - comparing the heading with the location information of the one or more weather signals; and
 - generating the weather alert in the navigation device based on comparing the heading with the location information.

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11. (Currently Amended) A method, comprising:
- determining one or more positions using a global positioning system (GPS) signal;
 - recording a track log based on the one or more positions;
 - receiving one or more weather signals on at least a first channel of a navigation device, where the one or more weather signals include location information;
 - determining a heading based on the track log;
 - comparing the heading with the location information of the one or more weather signals; and
 - generating a weather alert based on comparing the heading with the location information;
 - performing a routing algorithm to calculate a route, where the route includes one or more waypoints;
 - comparing the one or more waypoints with the location information of the one or more weather signals; and
 - generating the weather alert based on comparing the one or more waypoints of the route with the location information.

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12. (Original) The method of claim 11, wherein receiving one or more weather signals on at least the first channel of the navigation device includes receiving a Specific Area Message Encoding signal including the location information.
13. (Original) The method of claim 11, further including receiving and transmitting one or more voice data signals.
14. (Original) The method of claim 13, further including receiving and transmitting the one or more voice data signals on a Family Radio Service (FRS) frequency.
15. (Cancelled)
16. (Currently Amended) The method of claim ~~[[15]]~~ 11, wherein, upon generating the weather alert, the method further includes;
 - selecting one or more way points;
 - determining a present location based on a signal from a global positioning system (GPS); and
 - performing the routing algorithm to calculate the route between the present position and the selected waypoints.

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17. (Original) The method of claim 16, wherein selecting one or more waypoints includes selecting one or more destination points.
18. (Previously Presented) A method, comprising:
- performing a routing algorithm to calculate a route, where the route includes one or more waypoints;
 - receiving one or more weather signals on at least a first channel of a navigation device, where the one or more weather signals include a location information;
 - comparing the one or more waypoints with the location information of the one or more weather signals; and
 - generating the weather alert based on comparing the one or more waypoints of the route with the location information.
19. (Original) The method of claim 18, further including selecting one or more waypoints for the route, and wherein performing the routing algorithm includes incorporating the one or more waypoints into the route.

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20. (Original) The method of claim 18, wherein receiving one or more weather signals includes receiving the one or more weather signals on at least a first channel of a navigation device, where the weather signals include a Specific Area Message Encoding signal having location information.

21. (Original) The method of claim 18, wherein, upon generating the weather alert, the method further includes;

selecting one or more waypoints;

determining a present location based on a signal from a global positioning system (GPS); and

performing the routing algorithm to calculate the route between the present position and the selected waypoints.

22. (Original) The method of claim 18, wherein the method further includes receiving and transmitting one or more voice data signals.

23. (Original) The method of claim 22, further including receiving and transmitting the one or more voice data signals on a Family Radio Service (FRS) frequency.

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24. (Original) The method of claim 22, further including interrupting the receiving and transmitting of the one or more voice data signals of the navigation device with the weather alert.

25. (Currently Amended) A computer readable medium having a set of computer readable instructions, the set of computer readable instructions comprising instructions for:

receiving one or more weather signals on at least a first channel of the navigation device, where the one or more weather signals include a location information;

determining one or more positions using a navigation device;

comparing the one or more positions with the location information; and

generating a weather alert in the navigation device based on comparing the one or more positions with the location information;

performing a routing algorithm to calculate a route, where the route includes one or more waypoints;

comparing the one or more waypoints with the location information of the one or more weather signals; and

generating the weather alert based on comparing the one or more waypoints of the route with the location information.

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26. (Original) The computer readable medium of claim 25, wherein determining the one or more positions further includes determining the positions from a global positioning system (GPS) enabled navigation device.

27. (Original) The computer readable medium of claim 25, wherein receiving one or more weather signals on at least the first channel of the navigation device includes receiving a Specific Area Message Encoding signal including the location information.

28. (Original) The computer readable medium of claim 25, further including interrupting one or more voice data signals of the navigation device with the weather alert.

29 (Cancelled)

30. (Currently Amended) The computer readable medium of claim ~~[[29]]~~ 25, wherein, upon generating the weather alert, the method further includes;

selecting one or more waypoints;

determining a present location based on a signal from a global positioning system (GPS); and

performing the routing algorithm to calculate the route between the present position and the selected waypoints.

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31. (Original) The computer readable medium of claim 25, further including recording a track log;

determining a heading based on the track log;

comparing the heading with the location information of the one or more weather signals; and

generating the weather alert in the navigation device based on comparing the heading with the location information.

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32. (Currently Amended) A navigation device, comprising:
- a processor;
 - a memory operably coupled to the processor;
 - a global positioning system (GPS) receiver operably coupled to the processor
 - and the memory for determining a position of the navigation device; and
 - a weather receiver operably coupled to the processor for receiving one or more weather signals, where the one or more weather signals include a location information, wherein the processor is operable to compare the location information of the one or more weather signals with the position of the navigation device, and operable to generate a signal for a weather alert based on a result of the comparison;
- wherein the memory includes cartographic data including a number of waypoints,
- wherein the processor is operable to perform a routing algorithm to
- calculate a route between at least two of the number of waypoints, and
- wherein the processor is operable to compare the one or more waypoints
- of the route with the location information of the one or more weather
- signals, and generate an alert for a weather alert based on the
- comparison.

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33. (Original) The navigation device of claim 32, further including a transceiver operably coupled to the processor to wirelessly transmit and receive voice data signals with an electronic device.
34. (Original) The navigation device of claim 33, wherein the transceiver is operable to transmit and to receive voice data signals on a Family Radio Service (FRS) frequency.
35. (Original) The navigation device of claim 33, wherein the processor is operable to interrupt the transceiver operation with the weather alert.
36. (Original) The navigation device of claim 32, wherein the one or more weather signals includes a Specific Area Message Encoding signal including the location information.
37. (Cancelled)

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38. (Original) The navigation device of claim 32, further including at least one input operably coupled to the processor and capable of receiving data on a selected position, wherein upon generating the weather alert, the processor receives data on the selected position through the at least one input, the GPS receiver determines a present position, and the processor operates on the routing algorithm to plot the route between the present position and the selected position.

39. (Original) The navigation device of claim 32, wherein the processor operates on a track log algorithm to record a track log based on the position of the navigation device, and the processor operates on a heading algorithm to determine a heading based on the track log, where processor operates on the comparison algorithm to compare the heading with the location information of the one or more weather signals, and generates the signal for the weather alert based on the result of the comparison.

40. (Original) The navigation device of claim 32, further includes a display operable to graphically present the weather alert.

41. (Original) The navigation device of claim 32, further includes an audio output device operable to audibly present the weather alert.

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Please add new claim 42, as follows:

42. (New) A method for providing location specific alerts, the method comprising the steps of:

receiving in a navigation device indication from a user of a destination;

determining in the navigation device a starting point;

determining in the navigation device at least one heading from the starting point
to the destination;

receiving in the navigation device one or more weather signals, wherein the
weather signals include location information relating to adverse weather
conditions; and

generating in the navigation device a weather alert if any of the adverse weather
conditions are expected to be encountered along the heading from the
starting point to the destination.

No new matter has been added as a result of these changes.